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(54) Title: IMPROVED CFM MODE SYSTEM

(57) Abstract: A method for producing at least one ciphertext block from at least one plaintext block using a block cipher E and a key K, the method including receiving n plaintext blocks, wherein n is an integer greater than 0, setting Q_0 equal to an initial value, and for each plaintext block of the n plaintext blocks: computing $Q_i = E_K(Q_{i-1}) \times CR P_i$; and computing $C_i = M(P_i, Q_i)$, thereby producing n ciphertext blocks, wherein $0 < i \le n$, and P_i denotes an i-th plaintext block of the n ciphertext blocks, and C_i denotes an i-th ciphertext block of the n ciphertext blocks, and C_i denotes an i-th of C_i if bit C_i is not to be encrypted, and selects a second argument of C_i if bit C_i is to be encrypted. Related apparatus and methods are also provided.





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According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 380/28,29,37,265; 713/200			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
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Α	WO 99/66669 A2 (RIVEST et al.) 23 December 1999 (23.12.1999)		1-30
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